

Work Order ID 146233***146233***

Page 1

Item ID: 647.3701

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: 412 Cable Cutter System, Standard

Start Date: 5/16/2016 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 5/27/2016 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals:

Process Plan: demDate: 16/05/13

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
647.3700	NC3

100

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP 647.3701

DAS
27
9-89JUN 09 2016 MLJ

JUN 27 2016

110

Pick Kit

0.00

110

Packaging

Memo

0.00

Packaging

JUN 09 2016

DAS
6
9-89DAS
28
9-89

120

QC4- 100% Inspect kits for completeness

0.00

120

QC

Memo

0.00

Quality Control

DAS
27
9-89

JUN 27 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: Date:

Work Order update only

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework Scrap Use-as-is Suspected Unapproved		AGAINST DEPARTMENT/PROCESS Skid-tube Machining Thermoforming Large Fab Cross tube Small Fab Finishing Composite Water Jet Prod. Eng. Coord. Rec/Store/Packaging Supplier Engineering Quality Other						
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval			
Description Work Order Deviation				Disposition						
										Completed By
										Lead hand / Supervisor Approval Verification
										QC / QA Coordinator Approval
Root Cause Environment Design Doc/Data Equip/Tooling Handling/Pre Material Internal Transport Tribal Knowledge LOA Substation Past Expiry Date Misidentified No Re-verification Operator Offset/Setup Supplier Training Use for Testing Poor Information Rushing Product Improvement Process Improvement Manufacturing Process Past Due		FAULT CATEGORY Pressure/Forced Bending Centre Not Concentric Cracks Crimp/Kink/Ripple/Wave Cuffs Crushing Heat Treat Wave/Twist in Tube Marks/Chatter Temperature/Cure Set-up BOM/Route Broken/Damage/Defect Inspection Incomplete/Unqualified Contamination Countersink Cut Too Short Instructions Incomplete/Unclear Drill Holes Power Loss/Surge Folio/Program Grain Weld Wrong Stock Pulled Out of Sequence Off-set Mislabeled Fit/Function Misaligned/off center Positioned Wrong Outside Dimensions Over/Under tolerance Part Incorrect Part Lost/Missing Part Moved Drawing Finish Misread Turning Sequence								
		OTHER :								

Work Order ID 146233***146233***

Page 2

Friday, May 13, 2016 11:00:12 AM

Item ID: 647.3701

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: 412 Cable Cutter System, Standard

Start Date: 5/16/2016 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 5/27/2016 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130		0.00							
130	Packaging						DAS 27	DAS 28	JUN 27 2016
Packaging	Memo	0.00				9-89	9-89		
Packaging	Identify and pack for shipping as per PPP 647.3701 Location: _____								
	<i>fs 101</i>								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

Su 6/28/16

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

Picklist Print

Friday, May 13, 2016 11:00:17 AM

Page 1

Work Order ID: 146233

146233

Parent Item: 647.3701

647 3701

Parent Item Name: 412 Cable Cutter System, Standard

Start Date: 5/16/2016

Required Date: 5/27/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.26 NEW ISSUE DD VERF:JLM IPP
REV:B 15.01.26 as per ecr 14-214 DD VERF:JLM
IPP REV:C AS PER REV NC3 15.03.18 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
601.3082 *601 3082* RIVET CR3212-4-1 DAS 27 9-89		Purchased	No				Each	0.0000		6			DAS 6 9-89
									**	M 13038			DAS 28 9-89
647.3903 *647 3903* Deflector Assembly DAS 27 9-89		Manufactured	No				Each	0.0000		1			DAS 6 9-89
									**	145282			DAS 28 9-89
647.3801 *647 3801* 412 Upper Cutter Assy DAS 27 9-89		Manufactured	No			110	Each	6.0000	1	1			DAS 6 9-89
									**				DAS 28 9-89
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JUN 09 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
Environment ☐		No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐	
Design ☐		Operator ☐		Bending ☐		Set-up ☐	
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐	
Equip/Tooling ☐		Supplier ☐		Cracks ☐		Broken/Damage/Defect ☐	
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐	
Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐	
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐	
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐	
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐	
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐	
Past Expiry Date ☐		Manufacturing Process ☐		OTHER : _____			
Misidentified ☐		Past Due ☐					

Picklist Print

Friday, May 13, 2016 11:00:17 AM

Page 2

Work Order ID: 146233

146233

Parent Item: 647.3701

647 3701

Parent Item Name: 412 Cable Cutter System, Standard

Start Date: 5/16/2016

Required Date: 5/27/2016

Start Qty: -1.00

Required Qty: 1.00

647.4010 Manufactured No

110 Each 19.0000 1 1

647 4010

Wiper Deflector RH

DAS
27
9-89

Location

Loc Qty

Loc Code

cck87

19

120740
m129721

17
2

**

DAS
6
9-89
DAS
28
9-89

647.4011 Manufactured No

110 Each 18.0000 1 1

647 4011

Wiper Deflector LH

DAS
27
9-89

Location

Loc Qty

Loc Code

cck78

18

120741
m129721

16
2

**

DAS
6
9-89
DAS
28
9-89

647.4110 Manufactured No

110 Each 15.0000 1 1

647 4110

Doubler

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK080

15

120987

15

**

DAS
6
9-89
DAS
28
9-89

647.4111 Manufactured No

110 Each 16.0000 1 1

647 4111

Doubler

DAS
27
9-89

Location

Loc Qty

Loc Code

cck111

16

120743

16

**

DAS
6
9-89
DAS
28
9-89

JUN 09 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By																																																									
								Lead hand / Supervisor Approval Verification																																																									
								QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : _____			

Picklist Print

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Page 4

Work Order ID: 146233

146233

Parent Item: 647.3701

647 3701

Parent Item Name: 412 Cable Cutter System, Standard

Start Date: 5/16/2016

Required Date: 5/27/2016

Start Qty: 1.00

Required Qty: 1.00

647.4116 Manufactured No

110 Each 20.0000 1 1

647 4116

Shim

**

DAS
6-28
9-89

Location

Loc Qty

Loc Code

CCK112

20

121064

20

647.4210 Manufactured No

110 Each 15.0000 1 1

647 4210

Bracket LH

**

DAS
6-28
9-89

Location

Loc Qty

Loc Code

CCK112

1

120749

1

CCK123

14

121086

14

647.4211 Manufactured No

110 Each 15.0000 1 1

647 4211

Bracket RH

**

DAS
6-28
9-89

Location

Loc Qty

Loc Code

CCK123

15

121134

15

647.4311 Manufactured No

110 Each 3.0000 1 1

647 4311

RH Lower Struts

**

DAS
6-28
9-89

Location

Loc Qty

Loc Code

CCK67

3

126397

3

DAS
27
9-89

JUN 09 2016

Friday, May 13, 2016 11:00:17 AM

Shop Packet Print

Page 4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval				
Description Work Order Deviation				Disposition				Completed By			
								Lead hand / Supervisor Approval Verification			
								QC / QA Coordinator Approval			
Root Cause				FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	
OTHER : _____											

Picklist Print

Friday, May 13, 2016 11:00:17 AM

Page 5

Work Order ID: 146233

146233

Parent Item: 647.3701

647 3701

Parent Item Name: 412 Cable Cutter System, Standard

Start Date: 5/16/2016

Required Date: 5/27/2016

Start Qty: 1.00

Required Qty: 1.00

647.4310 Manufactured No

110 Each 18.0000 1 1

647 4310

LH Lower Strut

**

DAS
6 28
9-89 9-89

Location

Loc Qty

Loc Code

cck066

18

126395

18

JUN 09 2016

647.4312 Manufactured No

110 Each 0.0000 1 1

647 4312

LH Upper Strut

**

DAS
6 28
9-89 9-89

647.4313

Manufactured No

110 Each 0.0000 1 1

647 4313

RH Upper Strut

**

DAS
6 28
9-89 9-89

NAS1149FN832P

Purchased No

110 Each 2,053.000 34 34

NAS1149FN832P

Washer

**

DAS
6 28
9-89 9-89

Location

Loc Qty

Loc Code

GA

475

M133316

16

M133769

459

ST260a

1200

M134257

1200

ST264

378

M133709

378

JUN 09 2016

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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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Friday, May 13, 2016 11:00:17 AM

Work Order ID: 146233

146233

Parent Item: 647.3701

647 3701

Parent Item Name: 412 Cable Cutter System, Standard

Start Date: 5/16/2016

Required Date: 5/27/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

110

Each

3,284.000

157

157

NAS1149F0332P

Washer

**

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

312

m133709

312

ST262

2972

m134257

972

m134676

2000

157

MS27039-1-07

Purchased

No

110

Each

316.0000

12

12

MS27039-1-07

Screw

**

DAS 6 28
9-89 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

304

125654

304

Return 2016

1

m127813

1

ST281

11

11

12

JUN 09 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

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Work Order ID: 146233

146233

Parent Item: 647.3701

647 3701

Parent Item Name: 412 Cable Cutter System, Standard

Start Date: 5/16/2016

Required Date: 5/27/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

110

Each

784.0000

42

42

MS27039-1-10

SCREW

DAS
6
9-89 28
9-89

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

18

m129541

18

over 006

300

m134567

300

OVER007

300

m134676

300

ST280

125

m134370

125

DAS
27
9-89

42

2

MS27039-08-08

Purchased

No

110

Each

63.0000

16

16

MS27039-08-08

Screw

DAS
6
9-89 28
9-89

Location

Loc Qty

Loc Code

CA

8

m130113

8

ST278

55

m134142

55

DAS
27
9-89

16

JUN 09 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

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Work Order ID: 146233

146233

Parent Item: 647.3701

647.3701

Parent Item Name: 412 Cable Cutter System, Standard

Start Date: 5/16/2016

Required Date: 5/27/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-09

Purchased

No

110

Each

217.0000

14

14

MS27039-1-09

Screw

DAS

6

9-89

DAS

28

9-89

DAS

27

9-89

Location

Loc Qty

Loc Code

FP001

34

18057

34

GA

36

124859

36

ST280

147

m134167

147

MS27039-08-11

Purchased

No

110

Each

464.0000

2

2

MS27039-08-11

SCREW

DAS

6

9-89

DAS

28

9-89

DAS

27

9-89

Location

Loc Qty

Loc Code

GA

300

m134676

300

ST278

164

m133769

164

MS24694-S49

Purchased

No

110

Each

222.0000

1

1

MS24694-S49

Screw

DAS

6

9-89

DAS

28

9-89

DAS

27

9-89

Location

Loc Qty

Loc Code

ST284

222

m129499

100

m129702

122

MS24694-C53

Purchased

No

110

Each

80.0000

8

8

MS24694-C53

Screw

DAS

6

9-89

DAS

28

9-89

DAS

27

9-89

Location

Loc Qty

Loc Code

ST285

80

m129702

80

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval 		
Description Work Order Deviation				Disposition					
							Completed By		
							Lead hand / Supervisor Approval Verification		
							QC / QA Coordinator Approval		

Root Cause				FAULT CATEGORY			
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER :			
Misidentified	☐	Past Due	☐				

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Work Order ID: 146233

146233

Parent Item: 647.3701

647 3701

Parent Item Name: 412 Cable Cutter System, Standard

Start Date: 5/16/2016

Required Date: 5/27/2016

Start Qty: 1.00

Required Qty: 1.00

601.3073 Purchased No

110 Each 7.0000 1 1

601 3073

Connector

DAS 6 28
9-89 9-89

DAS
27
9-89

Location	Loc Qty	Loc Code
CCK099	7	
M133781	1	
M134531	1	
M134739	5	

AN3-4A Purchased No

110 Each 239.0000 3 3

AN3-4A

Bolt

DAS 6 28
9-89 9-89

DAS
27
9-89

Location	Loc Qty	Loc Code
ST350	239	
m134502	239	

AN3-11A Purchased No

110 Each 119.0000 8 8

AN3-11A

Bolt

DAS 6 28
9-89 9-89

DAS
27
9-89

Location	Loc Qty	Loc Code
ST349	119	
m134167	119	

AN3C10A Purchased No

110 Each 16.0000 2 2

AN3C10A

Bolt

DAS 6 28
9-89 9-89

DAS
27
9-89

Location	Loc Qty	Loc Code
ST349	16	
m134167	16	

JUN 09 2016

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																											
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval																																																								
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																							
Root Cause		FAULT CATEGORY																																																													
Environment ☐	Design ☐	Doc/Data ☐	Equip/Tooling ☐	Handling/Pre ☐	Material ☐	Internal Transport ☐	Tribal Knowledge ☐	LOA ☐	Substation ☐	Past Expiry Date ☐	Misidentified ☐	No Re-verification ☐	Operator ☐	Offset/Setup ☐	Supplier ☐	Training ☐	Use for Testing ☐	Poor Information ☐	Rushing ☐	Product Improvement ☐	Process Improvement ☐	Manufacturing Process ☐	Past Due ☐	Pressure/Forced ☐	Bending ☐	Centre Not Concentric ☐	Cracks ☐	Crimp/Kink/Ripple/Wave ☐	Cuffs ☐	Crushing ☐	Heat Treat ☐	Wave/Twist in Tube ☐	Marks/Chatter ☐	Temperature/Cure ☐	Set-up ☐	BOM/Route ☐	Broken/Damage/Defect ☐	Inspection Incomplete/Unqualified ☐	Contamination ☐	Countersink ☐	Cut Too Short ☐	Instructions Incomplete/Unclear ☐	Drill Holes ☐	Power Loss/Surge ☐	Folio/Program ☐	Grain ☐	Weld ☐	Wrong Stock Pulled ☐	Out of Sequence ☐	Off-set ☐	Mislabeled ☐	Fit/Function ☐	Misaligned/off center ☐	Positioned Wrong ☐	Outside Dimensions ☐	Over/Under tolerance ☐	Part Incorrect ☐	Part Lost/Missing ☐	Part Moved ☐	Drawing ☐	Finish ☐	Misread ☐	Turning Sequence ☐
																								OTHER : _____																																							

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					

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Work Order ID: 146233

146233

Parent Item: 647.3701

647.3701

Parent Item Name: 412 Cable Cutter System, Standard

Start Date: 5/16/2016

Required Date: 5/27/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-2 Purchased No

110 Each 218.0000 13 13

CR3213-4-2

Cherry Rivet

DAS
28
DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK003

192

123301

192

13

ST319

26

m131340

26

CR3213-4-3 Purchased No

110 Each 312.0000 32 32

CR3213-4-3

Rivet, Cherry

DAS
28
DAS
6
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK003

200

123301

0

m131340

200

32

CCK004

40

m130388

40

ST319

72

m129541

72

CR3213-4-4 Purchased No

110 Each 201.0000 19 19

CR3213-4-4

Rivet, Cherry

DAS
28
DAS
6
9-89
JUN 09 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK003

100

M134654

100

ST319

101

M130388

35

M134376

66

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY			
Environment ☐	Design ☐	Doc/Data ☐	Equip/Tooling ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Handling/Pre ☐	Material ☐	Internal Transport ☐	Tribal Knowledge ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
LOA ☐	Substation ☐	Past Expiry Date ☐	Misidentified ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
				Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
				Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
				Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
				Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
				Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
				Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
				Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
				OTHER : _____			

Picklist Print

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Work Order ID: 146233

146233

Parent Item: 647.3701

647.3701

Parent Item Name: 412 Cable Cutter System, Standard

Start Date: 5/16/2016

Required Date: 5/27/2016

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-5

Purchased

No

110

Each

225.0000

42

42

CR3213-4-5

Rivet

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK003

100

M129913

100

ST319

125

M129913

125

CR3213-4-8

Purchased

No

110

Each

108.0000

4

4

CR3213-4-8

Rivet

DAS
27
9-89

Location

Loc Qty

Loc Code

ST319

108

123785

108

MS21042-3

MS21042L3

Purchased

No

110

Each

18.0000

79

79

MS21042-3

Nut / use MS21042L3

DAS
27
9-89

Location

Loc Qty

Loc Code

ST304

18

M129682

18

MS21042-08

MS21042L08

Purchased

No

110

Each

33.0000

18

18

MS21042-08

USE MS21042L08

DAS
27
9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

DAS
6
28
9-89

134497 M1
134852 X28

DAS
6
28
9-89

DAS
6
9-89

DAS
28
9-89

DAS
6
28
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing, ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Picklist Print

Friday, May 13, 2016 11:00:18 AM

Page 13

Work Order ID: 146233

Parent Item: 647.3701

Parent Item Name: 412 Cable Cutter System, Standard

146233

647 3701

Start Date: 5/16/2016

Required Date: 5/27/2016

Start Qty: 1.00

Required Qty: 1.00

MS21047L06

Purchased

No

110

Each

52.0000

6

6

MS21047L 06

Nut Plate

DAS
27
9-89

Location

Loc Qty

Loc Code

ST303

52

m131340

52

MS21047L08

Purchased

No

110

Each

45.0000

6

6

MS21047L 08

Nut Plate

DAS
27
9-89

Location

Loc Qty

Loc Code

ST301

45

m129702

45

MS21047-3

Purchased

No

110

Each

181.0000

4

4

MS21047-3

Nut Plate

DAS
27
9-89

Location

Loc Qty

Loc Code

ST301

181

m134166

131

m134676

50

MS21071L3

Purchased

No

110

Each

181.0000

4

4

MS21071L 3

ANCHOR NUT

DAS
27
9-89

Location

Loc Qty

Loc Code

ST299

81

m129702

81

ST301

100

125654

100

JUN 09 2016

Friday, May 13, 2016 11:00:18 AM

Shop Packet Print

Page 13

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
Root Cause				FAULT CATEGORY					
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : _____			

Picklist Print

Page 14

Friday, May 13, 2016 11:00:18 AM

Work Order ID: 146233

146233

Parent Item: 647.3701

647.3701

Parent Item Name: 412 Cable Cutter System, Standard

Start Date: 5/16/2016

Required Date: 5/27/2016

Start Qty: 1.00

Required Qty: 1.00

601.3083 Manufactured No

110 Each 8.0000 1 1

DAS

601.3083

Adhesive Rubber Seal

**

6

9-89

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck009

8

m134349

8

601.1012 600.1012 Purchased No

110 Each 0.0000 1 1

**

DAS

6

9-89

DAS

28

9-89

601.1012

Sealant (One 6 oz)

601.2045

EXP: 10/2016

DAS
27
9-89

Purchased

No

110 Each 15.0000 1 1

**

DAS

6

9-89

DAS

28

9-89

601.2045

RTV (LOCTITE 598)McMaster p/n: 6641A41

Location

Loc Qty

Loc Code

CCK096

7

m133588

7

GA

8

m134260

8

DAS
27
9-89

DAS
6
9-89
SUN 09 2016

Friday, May 13, 2016 11:00:18 AM

Shop Packet Print

Page 14

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
OTHER : ☐									



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

ENGINEERING CHANGE NOTICE NO.

04881

SHEET 1 OF 1

DWG NO. 647.3700

REV: N/C PREPARED BY J. BECKER

DATE: 02/26/15

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY: ENGR *[Signature]*

MFG *[Signature]*

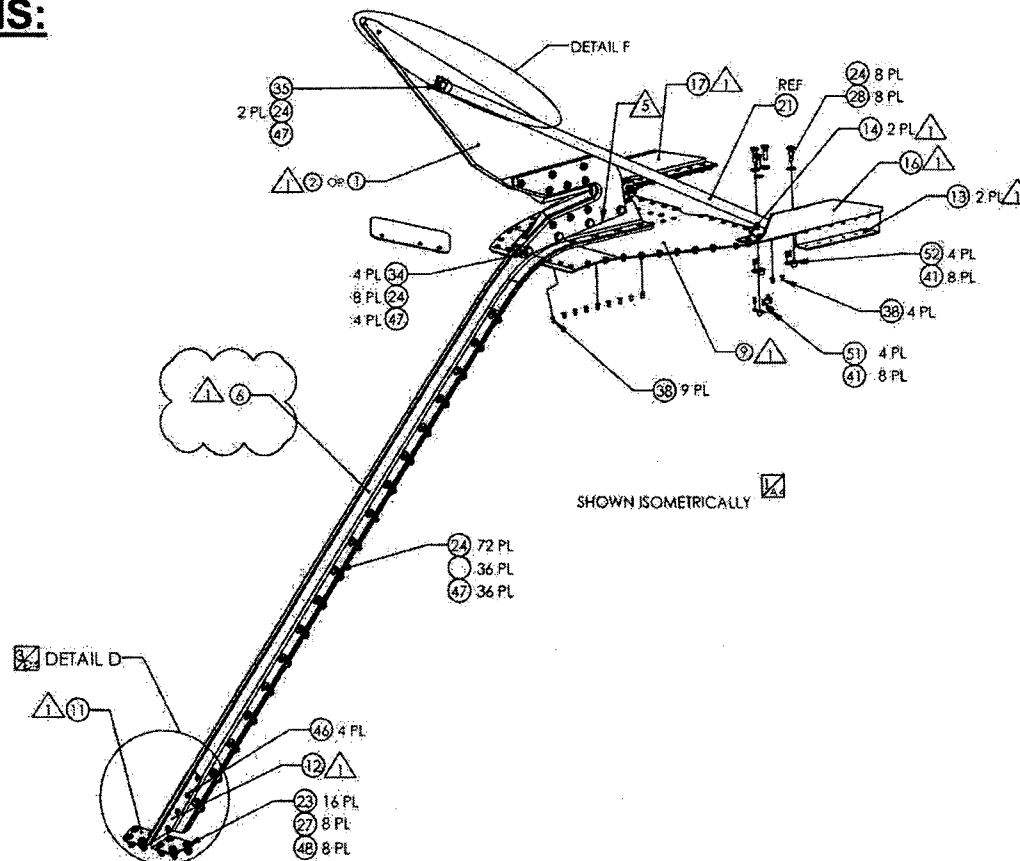
QC

EFF. NEXT ORDER

REASON: DELETED F/N 57, REVISED F/N 6.

ECR: N/A

SHEET 1, ZONE C5 IS:



ACTION ITEM:
1.

57	D	647.3916	1	1	1	1	DEFLECTOR UPPER HALF		
6	R	647.3903	1	1	1	1	DEFLECTOR ASSEMBLY		
F/N	TC	PART NUMBER	3704	3703	3702	3701	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY						
DOCUMENTS EFFECTED:							CHANGE CATEGORY	DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM							☐ MAJOR ☒ MINOR	☐ YES ☒ NO	

w/o 146233

dem 16/05/13



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

04845

SHEET 1 OF 1

DWG NO. 647.3700

REV: N/C

PREPARED BY

J. BECKER

DATE: 02/11/15

EFFECT ON DWG

☐ INC. ☒ UNINC.

DWG TITLE: 412 CABLE CUTTERS KIT

APPROVED BY:

ENGR

[Signature]

MFG

[Signature]

QC

[Signature]

EFF.

NEXT ORDER

TRANSACTION CODES (TC):

A-ADD

C-CREATE

R-REVISE

D-DELETE

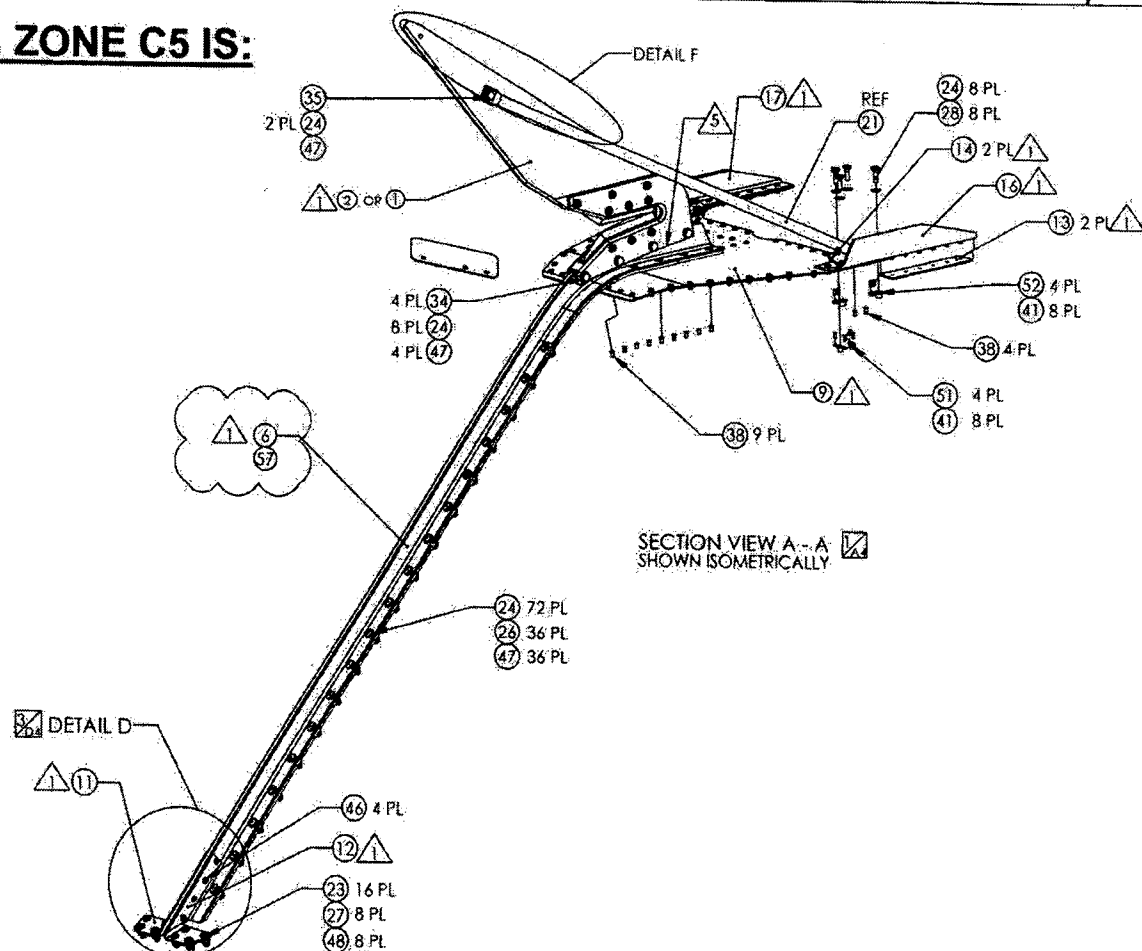
REASON: ADDED F/N 57

ECR:

ACTION ITEM:

1.

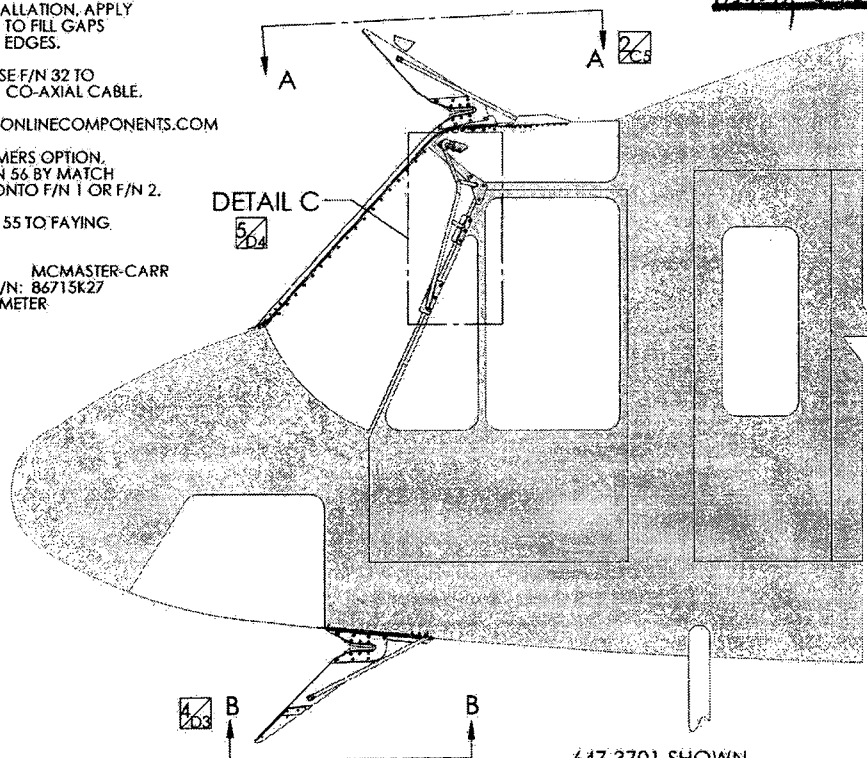
SHEET 1, ZONE C5 IS:



57	A	647.3916	1	1	1	1	DEFLECTOR UPPER HALF					
F/N/TC	PART NUMBER		3704	3703	3702	3701	DESCRIPTION				MATERIAL	SPECIFICATION
			QTY									
DOCUMENTS EFFECTED:							CHANGE CATEGORY				DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM							☐ MAJOR ☒ MINOR				☐ YES ☒ NO	

NOTES:

- DETAIL C



647.3701 SHOWN

[illegible]

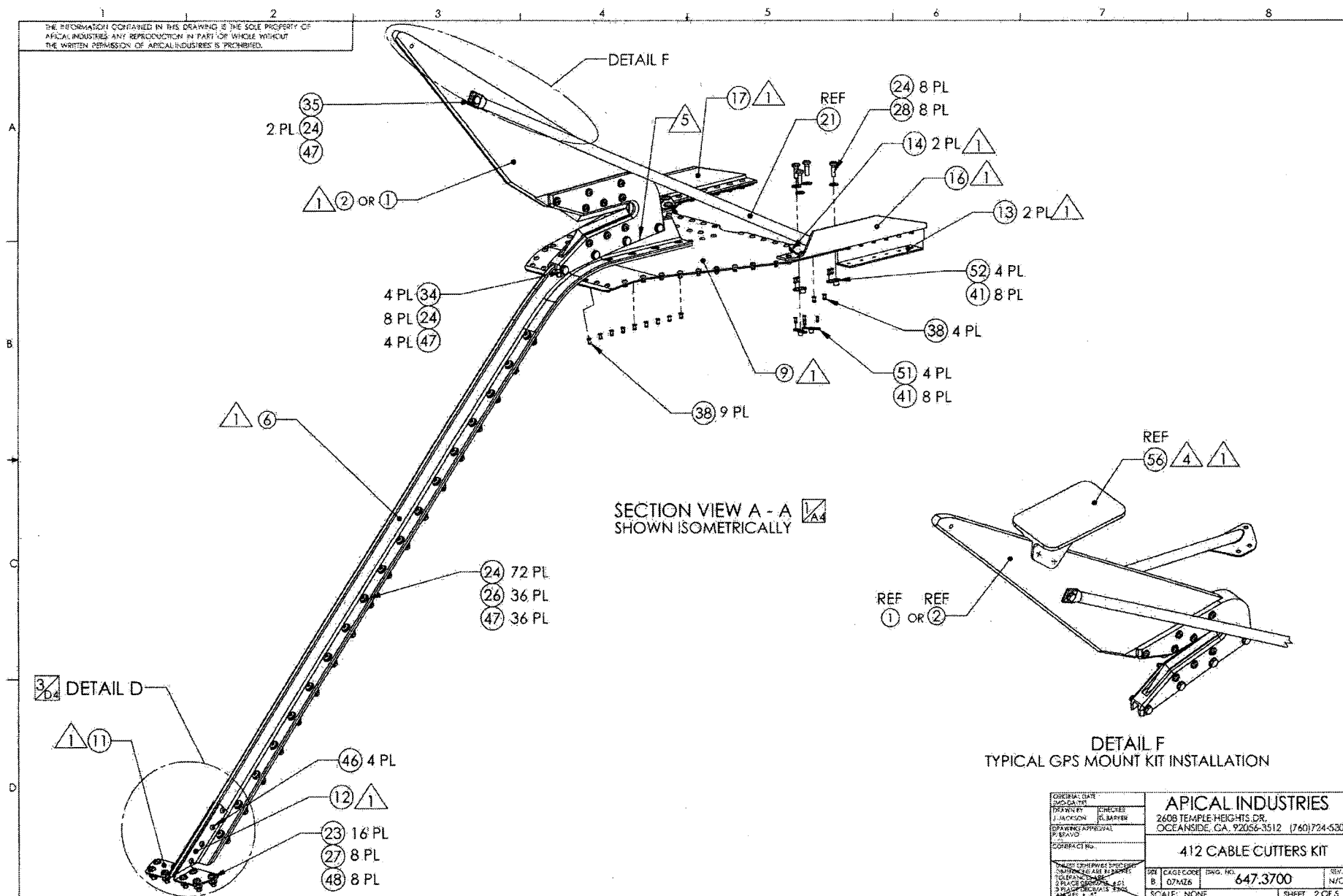
UNINCORPORATED ECN(S)

01728, 04845, 04881

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVER
	LAST PROTOTYPE REVISION PRI		N/C
N/C	INITIAL RELEASE	09-20-07	P. BRAY

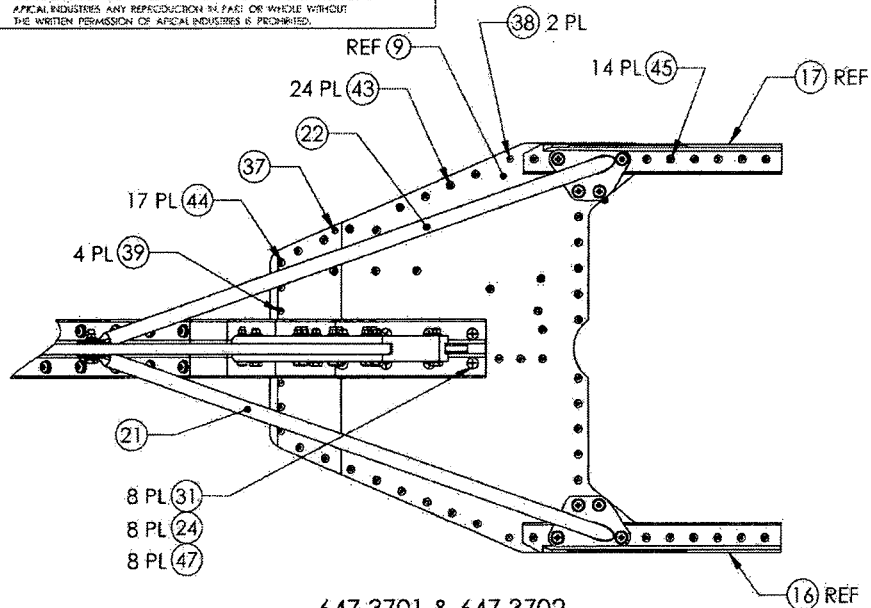
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	12	12	12	12	40	601.2491	NUTPLATE RIVET	CCR2645S-3-04
	7	7	4	4	39	601.1066	CHERRY RIVET	CR3212-4-4
	17	17	17	17	38	601.1065	CHERRY RIVET	CP32112-4-5
	5	5	6	6	37	601.1604	CHERRY RIVET	CR3212-4-2
	6	6	6	6	36	601.3082	CHERRY RIVET	CR3212-4-1
	2	2	2	2	35	601.1874	BOLT	AHS1DA
	8	8	8	8	34	601.2826	BOLT	ANS-11A
	3	3	3	3	33	601.2823	BOLT	ANS-4A
	1	1	1	1	32	601.3073	CONNECTOR	D87-444D
	8	8	8	8	31	601.2419	SCREW	M52464KCS3
	1	1	1	1	30	601.3070	SCREW	M52464KCS9
	2	2	2	2	29	601.2893	SCREW	M52703P-0B11
	14	14	14	14	28	601.3069	SCREW	M52703P-1-09
	16	16	16	16	27	601.2263	SCREW	M52703P-Q508
	42	42	42	42	26	601.1365	SCREW	M52703P-1-10
	12	12	12	12	25	601.2198	SCREW	M52703P-1-07
	157	157	157	157	24	601.1607	WASHER	NAS1149F03032P
	34	34	34	34	23	601.2764	WASHER	NAS1149H03032P
	1	1	1	1	22	647.4313	RH UPPER STRUT	
	1	1	1	1	21	647.4312	LH UPPER STRUT	
	1	1	1	1	20	647.4310	LH LOWER STRUT	
	1	1	1	1	19	647.4311	RH LOWER STRUT	
	1	1	1	1	18	647.4212	PLATE	
	1	1	1	1	17	647.4211	BRACKET RH	
	1	1	1	1	16	647.4210	BRACKET LH	
	1	1	1	1	15	647.4116	SHIM	
	2	2	2	2	14	647.4115	SHIM	
	2	2	2	2	13	647.4114	SHIM	
	1	1	1	1	12	647.4113	CLIP	
	1	1	1	1	11	647.4112	CLIP	
	1	1	1	1	10	647.4111	DOUBLER	
	1	1	1	1	9	647.4110	DOUBLER	
	1	1	1	1	8	647.4011	WIFER DEFLECTOR LH	
	1	1	1	1	7	647.4010	WIFER DEFLECTOR RH	
	1	1	1	1	6	647.3915	DEFLECTOR	
	1	1	1	1	5	647.4410	RAIL	
	1	1	1	1	4	647.3804	LOWER CUTTER ASSY HIGH	
	1	1	1	1	3	647.3803	LOWER CUTTER ASSY LOW	
	1	1	1	1	2	647.3802	212 UPPER CUTTER ASSY	
	1	1	1	1	1	647.3801	412 UPPER CUTTER ASSY	
						647.3704	204, 205, 212 CABLE CUTTERS KIT HIGH	
						647.3703	204, 205, 212 CABLE CUTTERS KIT LOW	
						647.3702	412 CABLE CUTTERS KIT HIGH	
						647.3701	412 CABLE CUTTERS KIT LOW	
						FIND #	PART#	
						QTY	DESCRIPTION	MATL SPEC.
						NEXT ASSY (S)	PARTS LIST	
						ORIGINAL DATE 11-20-2018 BY: JAC	CHECKED BY: JAC	
						DRAWN BY: JAC	CHECKED BY: JAC	
						DRAWING APPROVAL BY: JAC	CHECKED BY: JAC	
						CHECKED BY: JAC	CHECKED BY: JAC	
						UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES FRACTIONS DECIMALS ANGLES FRACTIONS DECIMALS ANGLES	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA 92056-3512 (760)724-5300 412 CABLE CUTTERS KIT	
						BUY QUANTITY	DATE: M02	REV
						B 07M26	647.3700	N/A
						SCALE: NONE	SHEET 1 OF 3	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

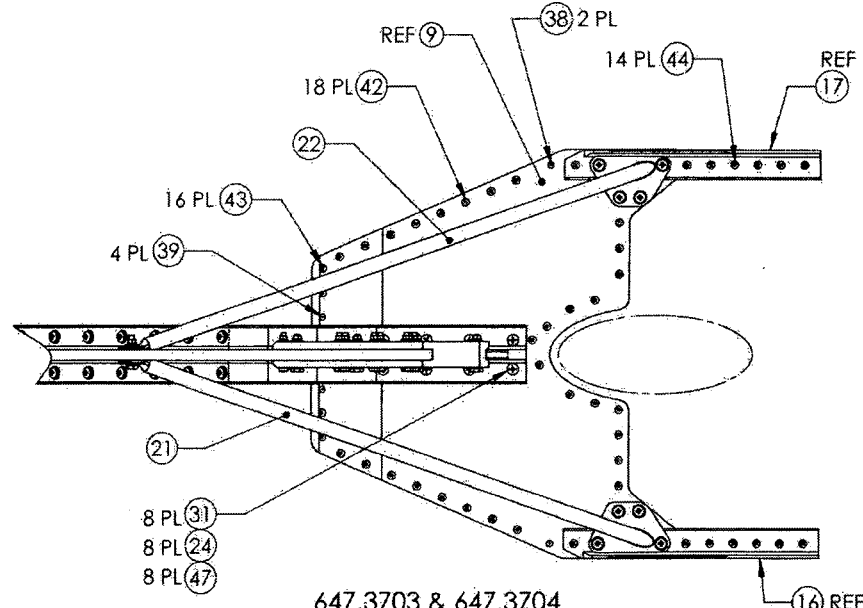


ORIGINAL DATE 1/1/2014		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, GA. 31558-3512 (760) 724-5300	
DRAWN BY J. JACKSON	CHECKED BY J. BARNER	412 CABLE CUTTERS KIT	
ENGINEERING APPROVAL P. BRAY		CAGE CODE B. 07M26	QTY. INC. 647.3700
MANUFACTURING APPROVAL J. BRAY		SCALE: NONE	SHEET 2 OF 5

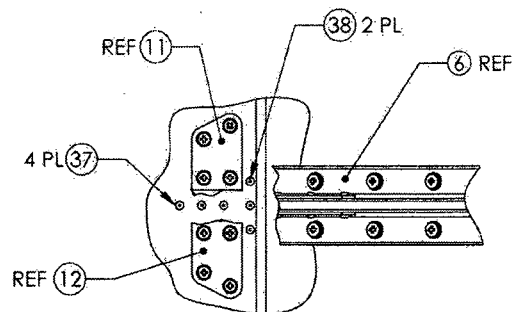
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647.3701 & 647.3702
UPPER CUTTER ASSEMBLY
TOP VIEW



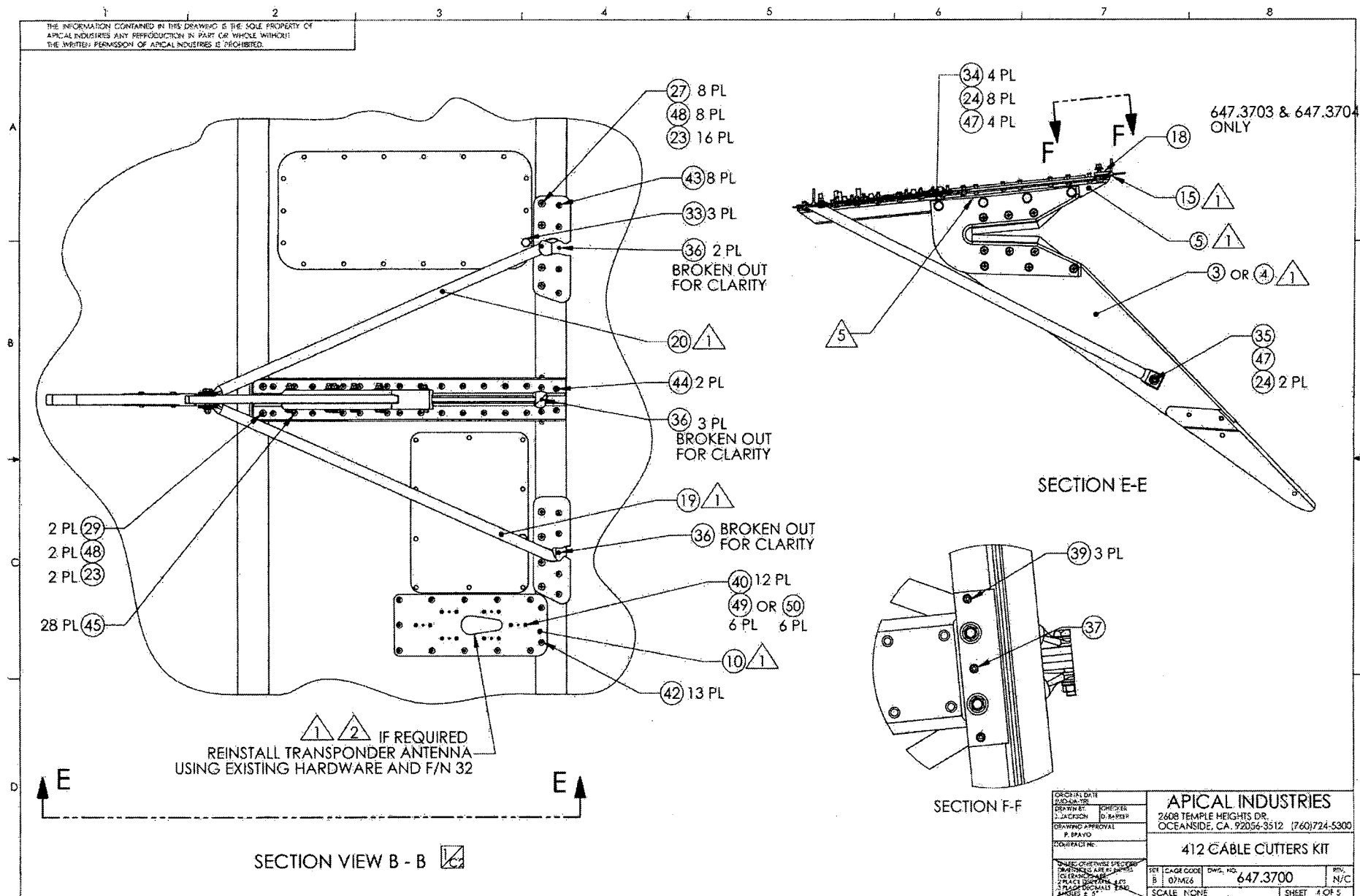
647.3703 & 647.3704
UPPER CUTTER ASSEMBLY
TOP VIEW



DETAIL D 
TOP VIEW
BROKEN OUT FOR CLARITY

DESIGNED BY L. JACOBSON	CHECKED BY D. RAFFERTY	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300
DRAWING APPROVAL P. BRAYO	CONTRACT NO.	412 CABLE CUTTERS KIT
UNLESS OTHERWISE SPECIFIED DRAWING SHALL BE IN INCHES DIMENSIONS SHALL BE IN INCHES TOLERANCES SHALL BE: FRACTIONS DECIMALS INCHES	REV. CAGE CODE DWG. NO. B 07M26 647.3700	REV. N/C
SCALE: NONE	SHEET 3 OF 5	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.



ORIGINAL DATE 10/1/87		APICAL INDUSTRIES	
DRAWN BY J. JACKSON		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY J. D. HARTER			
DRAWING APPROVAL P. PRAYO			
COORDINATOR NAME OF CUSTOMER		412 CABLE CUTTERS KIT	
DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED 1" = 1" (1:1) 3" = 3" (1:1) 6" = 6" (1:1) 12" = 12" (1:1)		REV. CAGE CODE DIMS. NO. REV. B 07M26 647.3700 N/C SCALE NONE SHEET 4 OF 5	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES AND REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

BROKEN OUT FOR CLARITY
RH SIDE ONLY

△ LH ⑧
OR
△ RH ⑦

DETAIL C 
LH SHOWN, RH OPPOSITE
2 PL

②⑧ 3 PL
②④ 6 PL
④⑦ 3 PL

⑤③ TRIM TO FIT

②⑥ 3 PL
②④ 6 PL
④⑦ 3 PL

②⑤ 6 PL
②④ 12 PL
④⑦ 6 PL

APICAL INDUSTRIES 2600 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
412 CABLE CUTTERS KIT	
DESIGNED BY: J. JACKSON DRAWN BY: J. JACKSON CHECKED BY: D. BARNER DRAWING APPROVAL: P. BRAYO CONTRACT NO.:	NET CAGE CODE: 6 07M26 DWG. NO: 647.3700 SCALE: NONE SHEET: 5 OF 5

Work Order ID 146233

Thursday, June 09, 2016 9:17:42 AM

146233

Page 1

Item ID: 647.3701

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: 412 Cable Cutter System, Standard

Start Date: 5/16/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 5/27/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
647.3700	NC3								
100		0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 647.3701								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

MLJ

JUN 09 2016

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



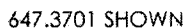
QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER :							

02728, 04845, 04881

6 VENDOR: MCMMASTER-CARR
VENDOR P/N: 86715K27
60A DUROMETER



REF.	REF.	REF.	REF.	56	647.5701	GPS MOUNT KIT			
A/R	A/R	A/R	A/R	55	601.2045	RIV		LOCITE 998	
A/R	A/R	A/R	A/R	54	601.1012	SEALANT		PR-1425	
1	1	1	1	53	601.3083	ADHESIVE RUBBER SEAL		CLASS 3	
4	4	4	4	52	601.2957	NUT/PLATE		MB-6-5665	
4	4	4	4	51	600.0795	NUT/PLATE		MS210713	
6	6	6	6	50	601.3066	NUT/PLATE		MS21047-3	
6	6	6	6	49	601.3065	NUT/PLATE		MS21047108	
18	18	18	18	48	601.2973	LOCKNUT		MS2104706	
79	79	79	79	47	601.2943	LOCKNUT		MS21042308	
4	4	4	4	46	601.2364	CHEERY RIVET		MS21042-3	
28	28	42	42	45	601.1183	CHEERY RIVET		CR3213-4-8	
16	16	19	19	44	601.1915	CHEERY RIVET		CR3213-4-5	
24	24	32	32	43	601.0790	CHEERY RIVET		CR3213-4-4	
31	31	13	13	42	601.1039	CHEERY RIVET		CR3213-4-7	
3704	3703	3702	3701	FIND	PART #		DESCRIPTION	MATL	SPEC.

ED ECN(8)						REVISIONS			
						REV.	DESCRIPTION	DATE	APPROVED
049801							LAST PROTOTYPE REVISION PER		N/C
						N/C	INTERNAL RELEASE	09-20-01	P. DRAY
16	16	16	16	41	601.2207	NUTPLATE RIVET	CCK26SS-3-03		
12	12	12	12	40	601.2491	NUTPLATE RIVET	CCR26SS-3-04		
7	7	4	4	39	601.1066	CHERRY RIVET	CRPS12-4-3		
17	17	17	17	38	601.1065	CHERRY RIVET	CRPS12-4-3		
5	5	6	6	37	601.1604	CHERRY RIVET	CRPS12-4-2		
6	6	6	6	36	601.3082	CHERRY RIVET	CRPS12-4-1		
2	2	2	2	35	601.1874	BOLT	ANCS10A		
8	8	8	8	34	601.2826	BOLT	ANS-LJA		
3	3	3	3	33	601.2823	BOLT	ANS-2A		
1	1	1	1	32	601.3073	CONNECTOR	DSI-4405		
8	8	8	8	31	601.2419	SCREW	M52689-250		
1	1	1	1	30	601.3970	SCREW	M52689-549		
2	2	2	2	29	601.3893	SCREW	M527039-0811		
14	14	14	14	28	601.3069	SCREW	M527039-1-09		
16	16	16	16	27	601.2263	SCREW	M527039-3B08		
42	42	42	42	26	601.1565	SCREW	M527039-1-10		
12	12	12	12	25	601.2198	SCREW	M527039-1-07		
157	157	157	157	24	601.1607	WASHER	MS11490300P		
34	34	34	34	23	601.2764	WASHER	MS114991030P		
1	1	1	1	22	647.4313	RH UPPER STRUT			
1	1	1	1	21	647.4312	LH UPPER STRUT			
1	1	1	1	20	647.4310	LH LOWER STRUT			
1	1	1	1	19	647.4311	RH LOWER STRUT			
1	1	1	1	18	647.4212	PLATE			
1	1	1	1	17	647.4211	BRACKET RH			
1	1	1	1	16	647.4210	BRACKET LH			
1	1	1	1	15	647.4176	SHIM			
2	2	2	2	14	647.4115	SHIM			
2	2	2	2	13	647.4114	SHIM			
1	1	1	1	12	647.4113	CLIP			
1	1	1	1	11	647.4112	CLIP			
1	1	1	1	10	647.4111	DOUBLER			
1	1	1	1	9	647.4110	DOUBLER			
1	1	1	1	8	647.4011	WIPER DEFLECTOR LH			
1	1	1	1	7	647.4010	WIPER DEFLECTOR RH			
1	1	1	1	6	647.3915	DEFLECTOR			
1	1	1	1	5	647.4210	RAIL			
1	1	1	1	4	647.3804	LOWER CUTTER ASSY HIGH			
1	1	1	1	3	647.3803	LOWER CUTTER ASSY LOW			
1	1	1	1	2	647.3802	212 UPPER CUTTER ASSY			
1	1	1	1	1	647.3801	412 UPPER CUTTER ASSY			
X	X	X	X		647.3704	204, 205, 212 CABLE CUTTERS KIT HIGH			
X	X	X	X		647.3703	204, 205, 212 CABLE CUTTERS KIT LOW			
X	X	X	X		647.3702	412 CABLE CUTTERS KIT HIGH			
X	X	X	X		647.3701	412 CABLE CUTTERS KIT LOW			
3704	3703	3702	3701	FIND #	PART #	DESCRIPTION	MATL	SPEC.	
QTY					PARTS LIST				
NEXT ASSY (S)					ORIGINAL DATE DESIGNED BY J. JACKSON DRAWN BY J. JACKSON CHECKED BY D. SAMP APPROVED BY P. BRADY PROJECT NO. COPIES OF THIS SPEC. SHEET: 1 - FOR THE CUSTOMER 1 - FOR THE DESIGN DEPT. 1 - FOR THE MANUFACTURING DEPT. 1 - FOR THE PURCHASING DEPT. 1 - FOR THE RECORDS DEPT.				
					APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300				
					412 CABLE CUTTERS KIT				
					SET B 07M26 LWS. NO. 647.3700 REV. N/C SCALE NONE SHEET 1 OF 1				

